

(12) **United States Patent**
Huang

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- (54) **CROSSBOW STRING COCKING DEVICE**
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8,578,917 B2 * 11/2013 Bednar F41B 5/1469
124/25

8,950,385 B1 * 2/2015 Khoshnood F41B 5/1469
124/1

2002/0059924 A1 * 5/2002 Bednar F41B 5/123
124/25

2010/0170488 A1 * 7/2010 Rasor F41A 11/02
124/25

* cited by examiner

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- (52) **U.S. Cl.**
CPC **F41B 5/1469** (2013.01); **F41B 5/12** (2013.01)
- (58) **Field of Classification Search**
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See application file for complete search history.

(57) **ABSTRACT**

A crossbow string cocking device preferably includes a housing, a first reel, a second reel, a ratchet device, a rotary spring, a driven shaft, a drive shaft and a string pull device. The housing preferably includes a main body housing, a first end cover and a second end cover. The ratchet device is retained in a first end of the main body housing. A drive gear is rotatably retained on the drive shaft. The first reel and a ratchet gear of the ratchet device are retained on a first end of the driven shaft. A driven gear, the rotary spring and the second reel are retained on a second end of the driven shaft. The string pull device includes a ribbon and at least one string hook. A first end of the ribbon is retained on the first reel. A second end of the ribbon is retained the second reel.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,593,675 A * 6/1986 Waiser F41B 5/12
124/25

7,100,590 B2 * 9/2006 Chang F41B 5/1469
124/25

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